

WOMEN IN SPACE

ACTIVITIES

1. Let's see how much we have understood.

(a) Who was the first Indian woman astronaut?

Ans: Kalpana Chawla was the first Indian woman astronaut.

(b) Why was the satellite Kalpana – 1 built?

Ans: The satellite Kalpana-1 was built in memory of Kalpana Chawla after her death.

(c) Where was Kalpana Chawla from?

Ans: Kalpana Chawla was from Karnal in Haryana.

(d) What was Kalpana Chawla's dream?

Ans : Flying in space was Kalpana Chawla's dream.

(e) What does NASA do?

Ans : NASA sends satellite to space.

(f) What was the aim of Columbia space shuttle Flight STS-87?

Ans : The aim of Columbia space shuttle Flight STS-87 was to study the outer atmosphere of the sun.

(g) How did Kalpana Chawla die?

Ans : The space vehicle broke up in flames on its way back to earth and all the seven astronaut including Kalpana Chawla died.

Q. 2. In the lesson, you read about some important dates and numbers. See whether you remember what each number stands for.

1961 :

1997 :

STS-87 :

61,000m. :

Ans : 1961 : birth date of Kalpana Chawla.

1997 : Kalpana Chawla joined the Columbia shuttle Flight STS-87.

STS-87 : Kalpana Chawla with other six astronauts went into space on the space shuttle STS-87.

61,000 m : The space vehicle broke up in flame at the height of 61,000 meter.

Q. 3. Make a poster of Kalpana Chawla for your science exhibition in the box below. Include her childhood information and her work details in your poster.

Ans :



Kalpana Chawla was born in 1961 at Karnal in Haryana. She received her primary education in Tagore Bal Niketan at Karnal. Then she studied at Panjab Engineering College in Chandigarh, Flying in space was her dream. So she joined the National Aeronautical and Space Administration of the U.S.A. in 1997. She joined the Columbia space shuttle flight STS-87.

In this space vehicle, Kalpana with six other astronauts went for the study of atmosphere outside of the sun. They collected a lot of important data. But while returning on the way to the earth at the 61000-meter height the space vehicle broke up in flames and all the astronauts including Kalpana Chawla died. Kalpana Chawla was the first woman astronaut of India. India is proud of her and she would be remembered forever.

Q. 4. Let's learn some grammar:

Read the following sentences about Manas and Mayuri.

(i) Manas said to Mayuri, “Hello, Mayuri! Have you completed the project on “Women in space?”

(ii) Manas greeted Mayuri and asked her whether she had completed the project on women in space. The words spoken by a person/persons can be reported in two ways : Direct and Indirect.

When we quote the exact words spoken by a person, we call it Direct Speech. Note that the exact words spoken by the speaker Manas are put within inverted commas.

There are some rules for changing Direct speech to indirect speech.

- In indirect speech no inverted commas are used,
- The part used before the inverted commas (for example: Manas said to Mayuri) is called reporting clause. The verb (for example: said) in a reporting clause is called a reporting verb.
- We can also make the speaker's words a part of our own sentence. When we do so, the words are in Indirect speech or Reported Speech. While reporting a speech, we make changes to some of the words in Direct Speech.

Here is a sentence in Indirect speech. Write the sentence in Direct speech in the space below. Remember to use inverted commas.

Mayuri said that she had read about it on the internet.

Ans : Mayuri said, "I have read about it on the internet.

(b) In column A below are two sentences in Direct speech. In column B these are the matching sentences in Indirect Speech. Are the sentences in column B correct? If not, write them correctly in column C.

Column A	Column B	Column C
Mayuri Said to	Mayuri Said to	
Manas, "Do you	Manas that does he	
know What NASA it?"	know what NASA it?	
Manas Said, "Our	Manas Said that	
country will always	"Our Country	
remember her."	would always remember her."	

Ans :

Column A	Column B	Column C
Mayuri said to	Mayuri Said to	Mayuri asked Manas if
Manas, "Do you	Manas that does he	he knew what NASA is.
know what NASA is?"	know what NASA is?	
Manas Said,	Manas Said that	Manas Said that their
"Our Country	"Our Country	country would always
will always	would always	remember her.
remember."	remember her."	

Q. 5. Let's revise:

Forms	Examples with use
1. base form	Look: Look at the moon.
2. S form	Looks: He looks at the moon.
3. past form	Looked: He looked at the moon
4. ing form	Looking: He is looking at the moon.

Now fill in the blanks with suitable forms of verbs:

(i) MayuriManas on her way to school. (s form of meet)

(ii) I'm sure she..... flying in space. (past form of love)

(iii) It hasTo the sky. (part participle of fly)

Ans : (i) Mayuri meets Manas on her way to school.

(ii) I'm sure she loved flying in space.

(iii) It has flown to the sky.

Q. 6. Here are some interesting facts about famous astronauts who were women.



Sally Ride was the first American woman to go into space.



Valentina Tereshkova was the first woman in space and also one of the youngest female astronauts in history.



Sunita Williams is an astronaut and a United States Navy officer of Indo-Slovenian descent.

Now collect a picture of an astronaut and paste it in your notebook. Write a few sentences about him or her just below the picture.

Ans :



Rakesh Sharma was the first Indian astronaut. He flew to the space in 3rd April 1984 through Indo-Russian space travel.

Q. 7. Let's practice speaking in English. Using the phrase 'Have you heard', ask your partner a few questions about space. One is done for you.

Have you heard that 'Aryabhata' was India's first satellite?

No, I haven't.

Have you heard that Kalpana-I

Yes, I have.

Have.....

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.....

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.....

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Ans:



Q. 8. The box below has certain words used to ask questions. Find and write them in the space given.

A	W	H	E	R	E
W	H	O	W	E	R
H	E	W	H	A	O
A	N	H	Y	R	T
T	O	A	E	H	W

Ans:

A	W	H	E	R	E	Where
W	H	O	W	E	R	Who
H	E	W	H	A	O	What
A	N	H	Y	R	T	When
T	O	A	E	H	W	How
						Why

Q. 9. Fun with words :

Do you know what is interesting about these words? If you remove the first letter from each of the given words, you will find a new word. Write the new words in the space crafts under each word :

flight Send Space Craft Know there

Ans :

flight – light

Space – pace

Know – now

Send – end

Craft – raft

There – here

Now think of three more words like the above, and write them here.

Ans :

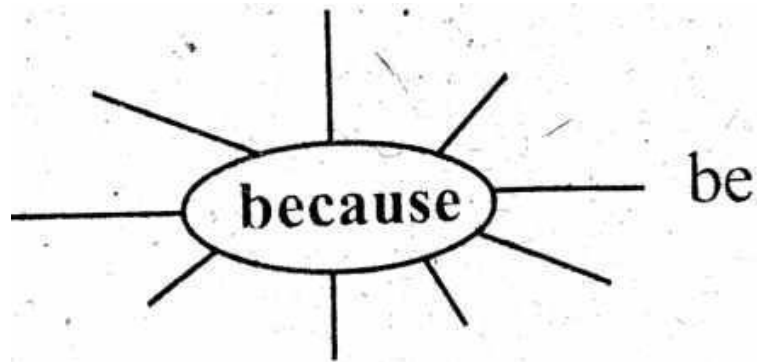
fought – ought

learned – earned

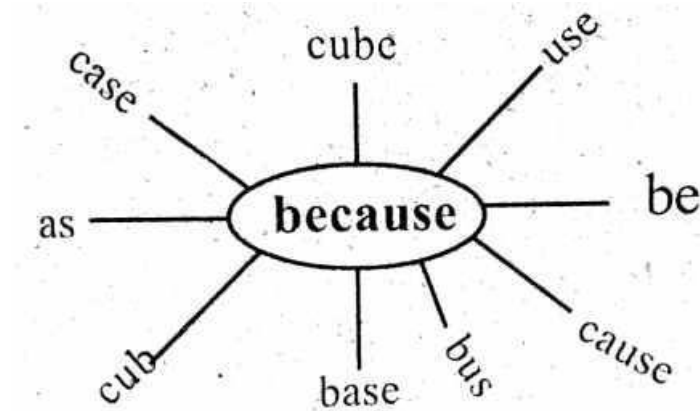
trained – rained

please – lease

Q. 10. See how many new words you can form with the letters used in the word 'because' below. One is done for you.



Ans :



Q. 11. Manas wants to be an astronaut when he grows up. Mayuri wants to be a scientist.



Sit in pairs and tell each other what you want to be when you grow up and why.

Q. 12. Project Works:

[The teacher will do the needful.]